

FIGURE 1  
PRIOR ART

Title: Deformable Mirror Method and Apparatus Including  
Bimorph Flexures and Integrated Drive

Applicants: Knollenberg, et al.

Docket: IRIS-01001US0

Appl. No.: Unknown

Atty: Larry E. Vierra

Filing Date: November 7, 2003

Phone: (415) 369-9660

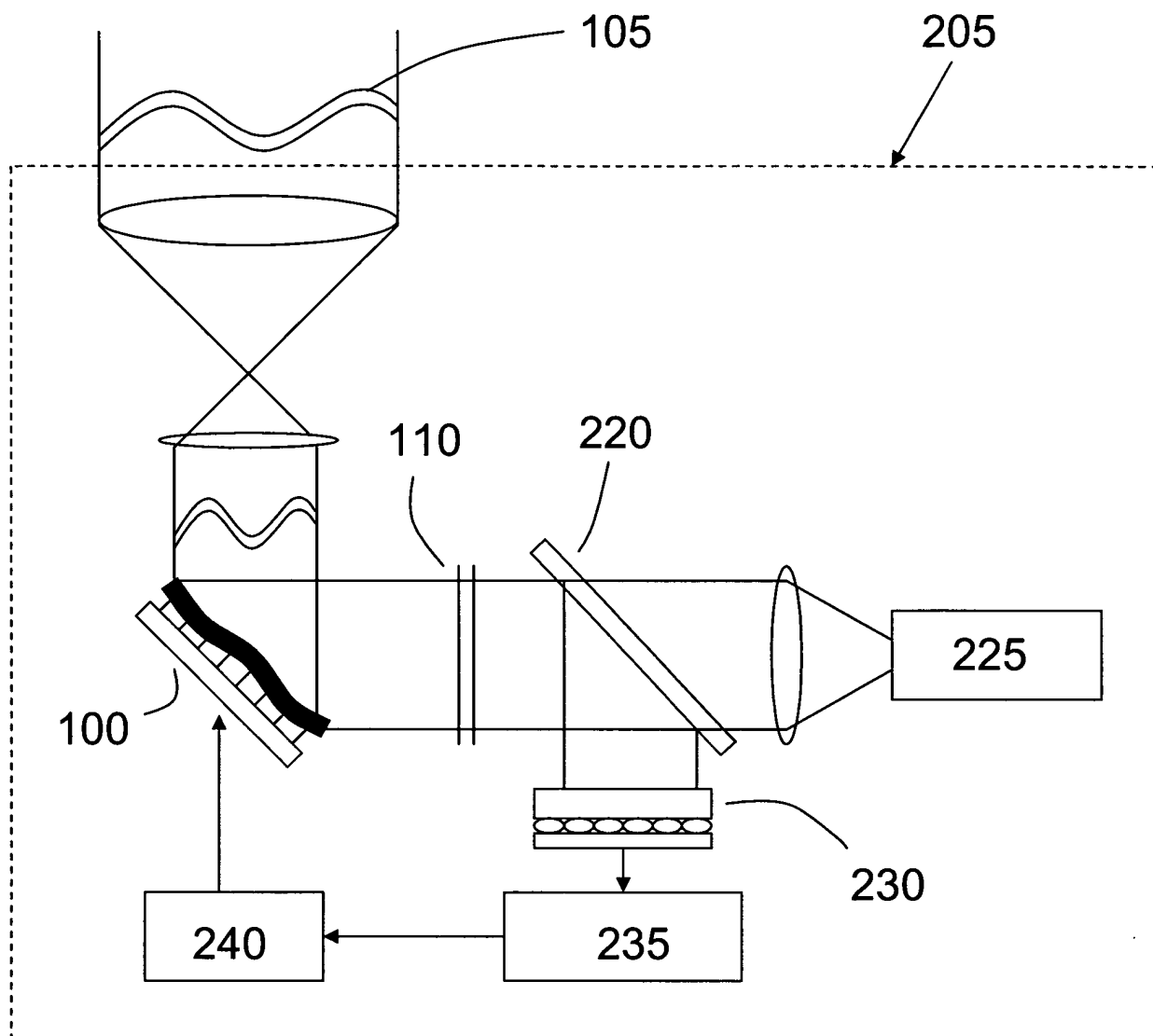


FIGURE 2  
PRIOR ART

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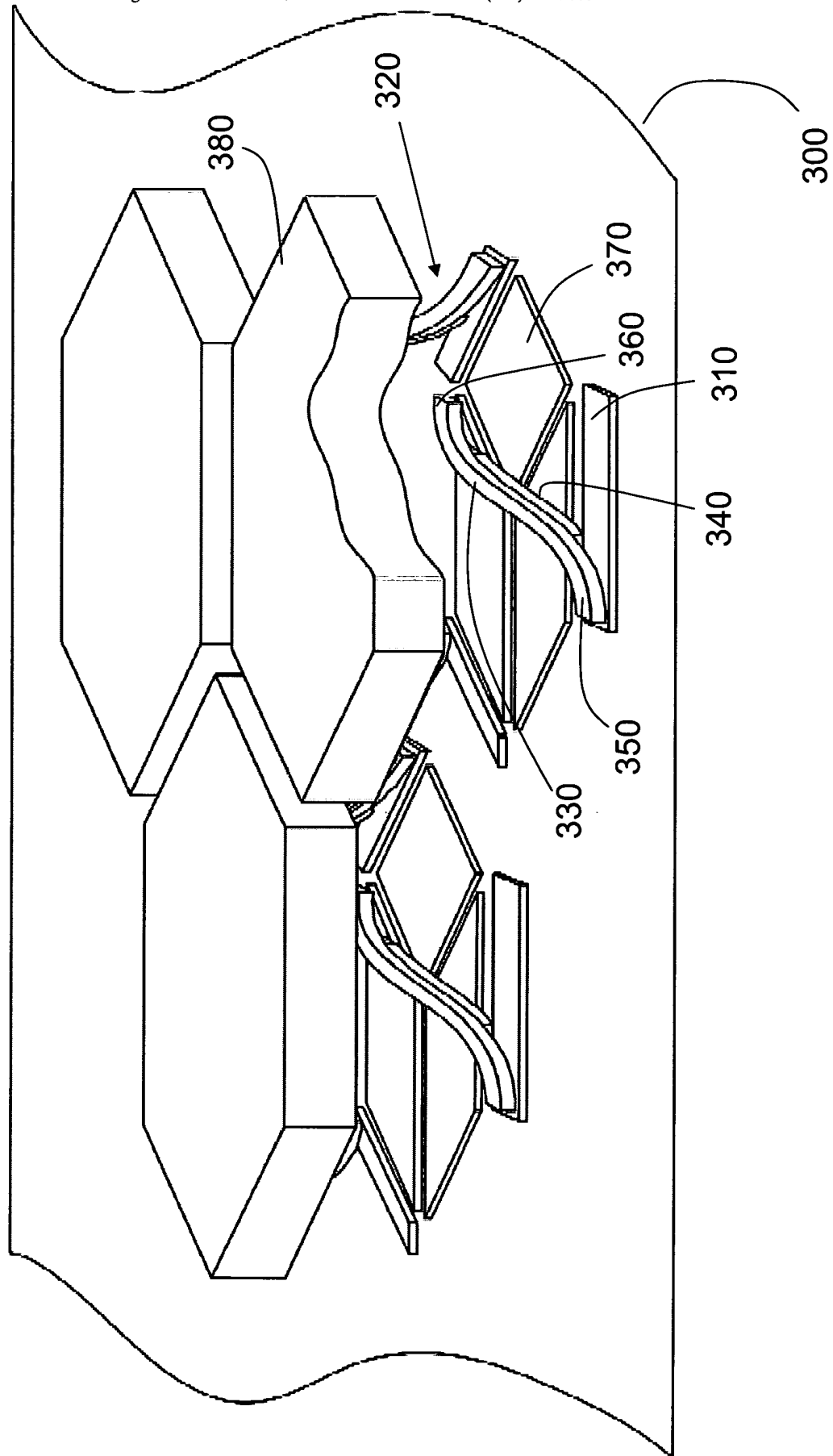


FIGURE 3A

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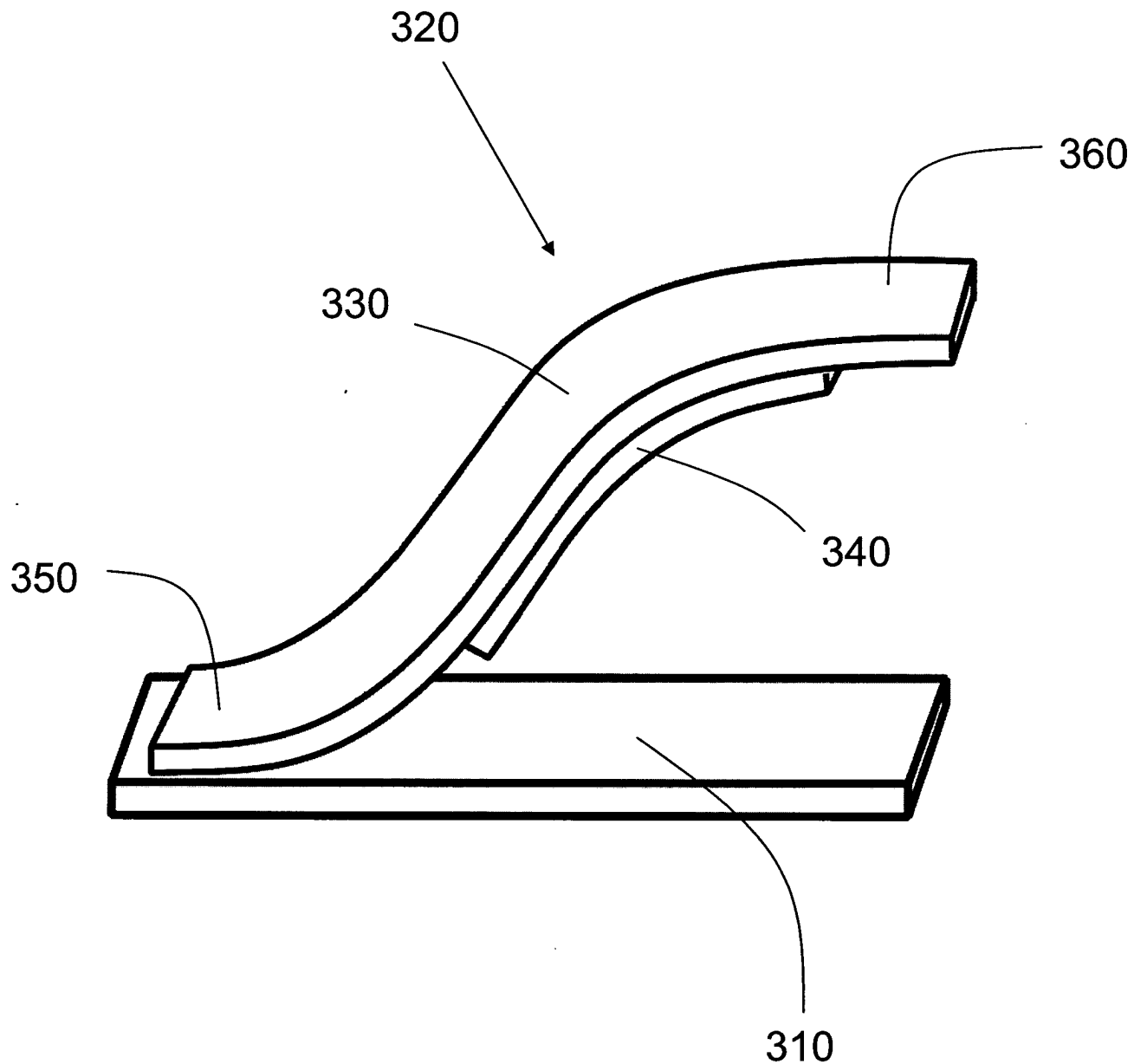


FIGURE 3B

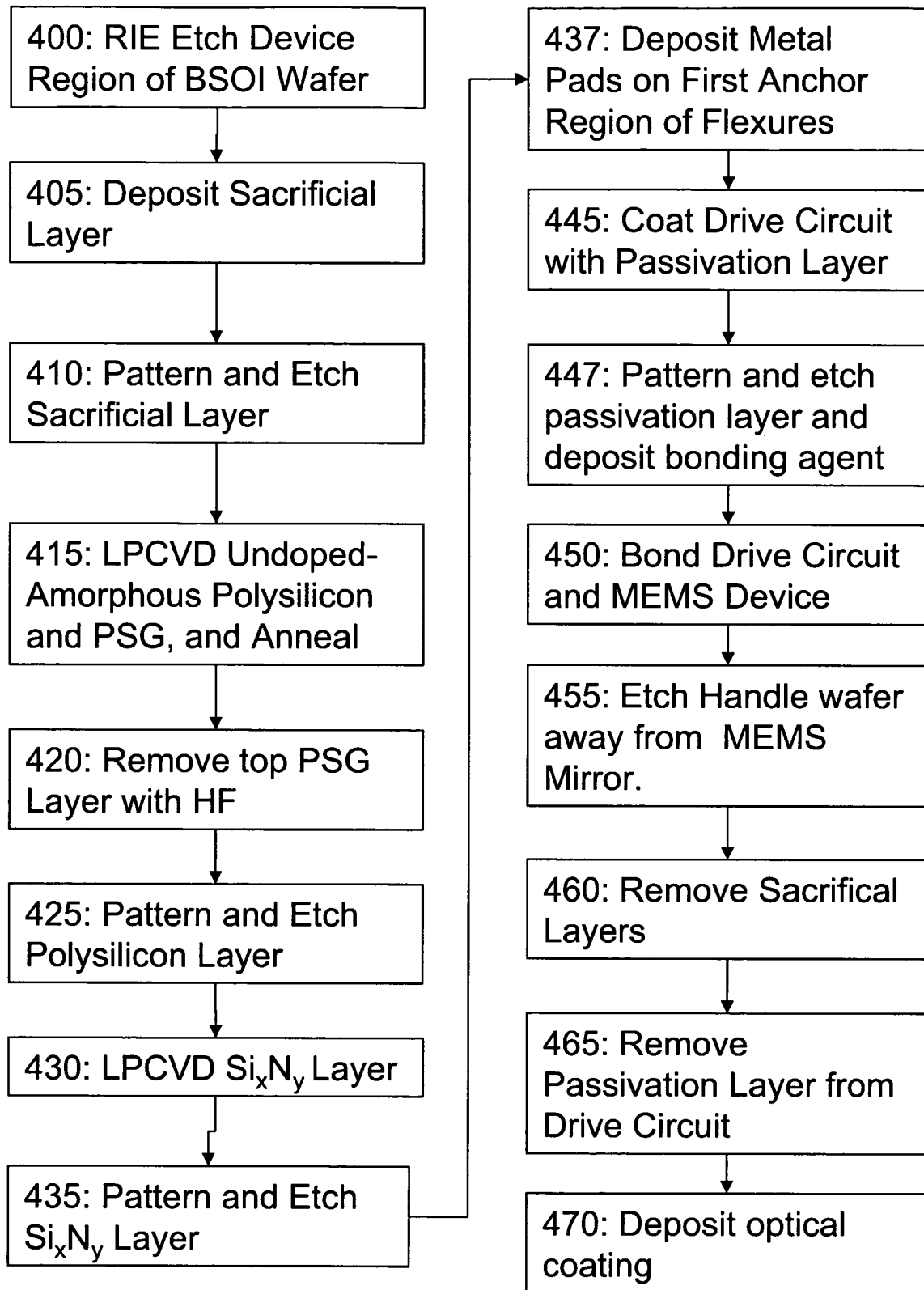
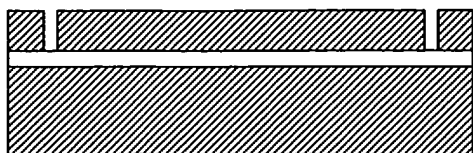


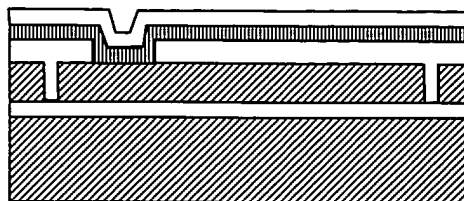
FIGURE: 4A

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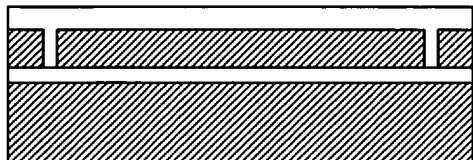
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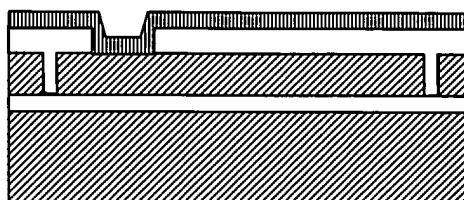
415



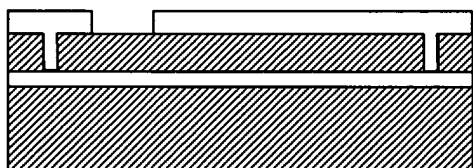
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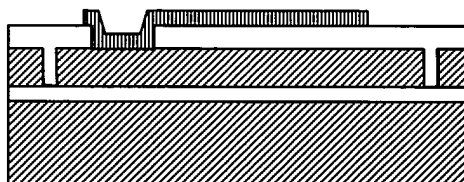
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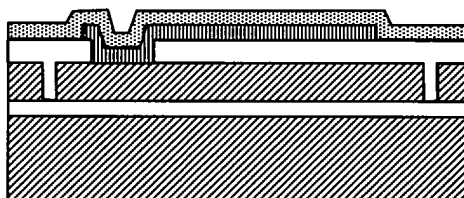
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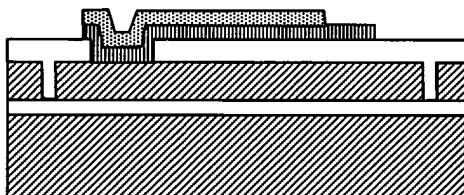
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430



435



437

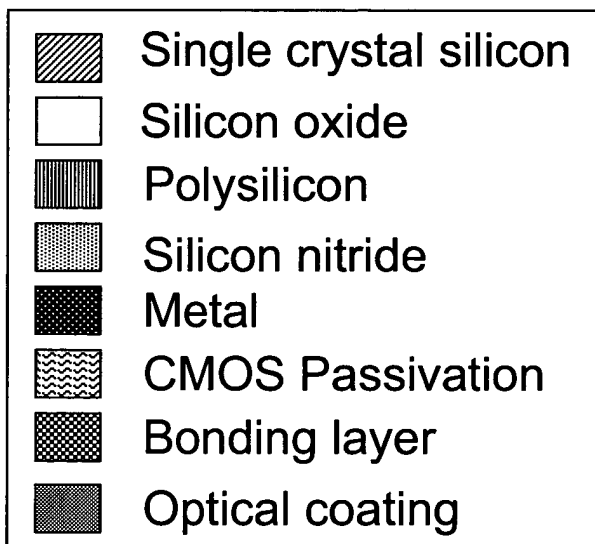
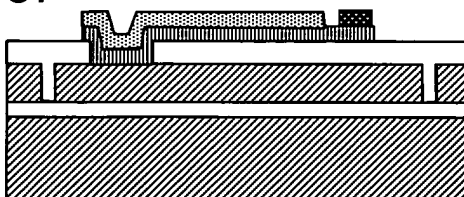
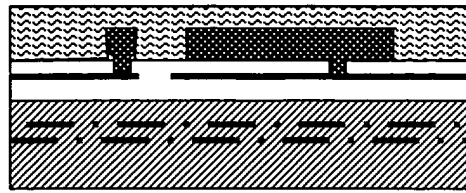


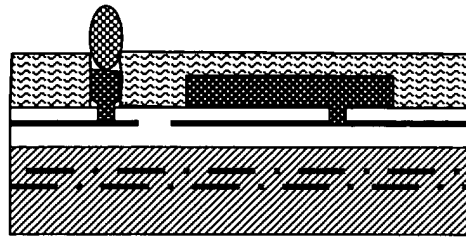
FIGURE: 4B - 1

445



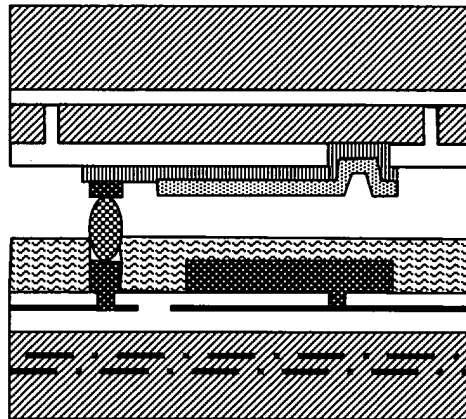
← 300

447



← 300

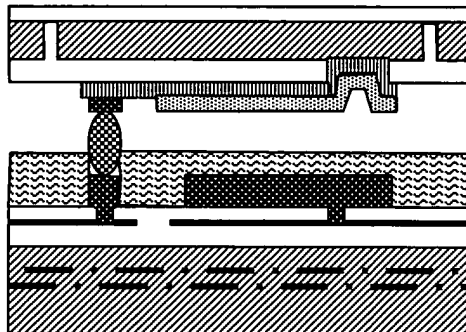
450



← 500

← 300

455



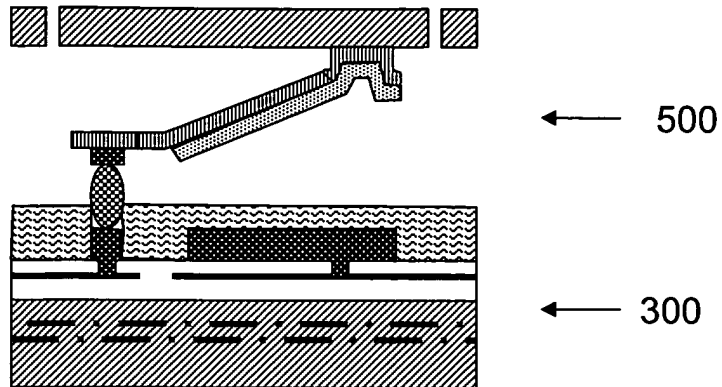
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← 300

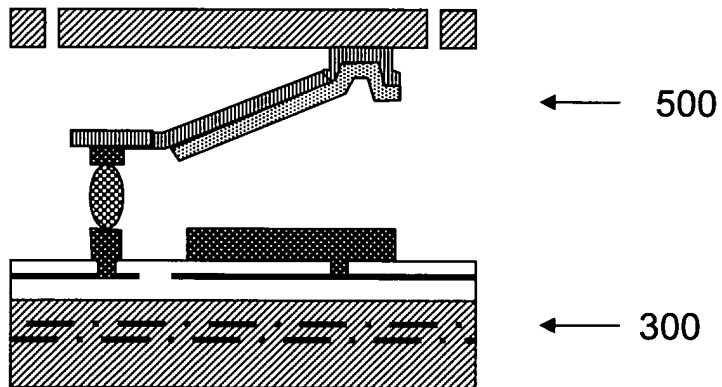
FIGURE: 4B - 2

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460



465



470

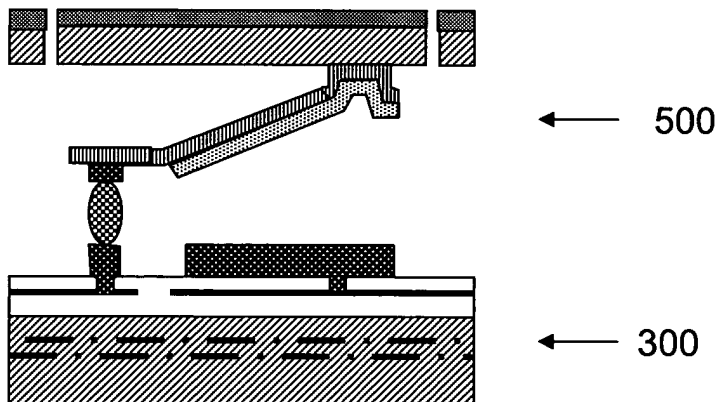


FIGURE: 4B - 3



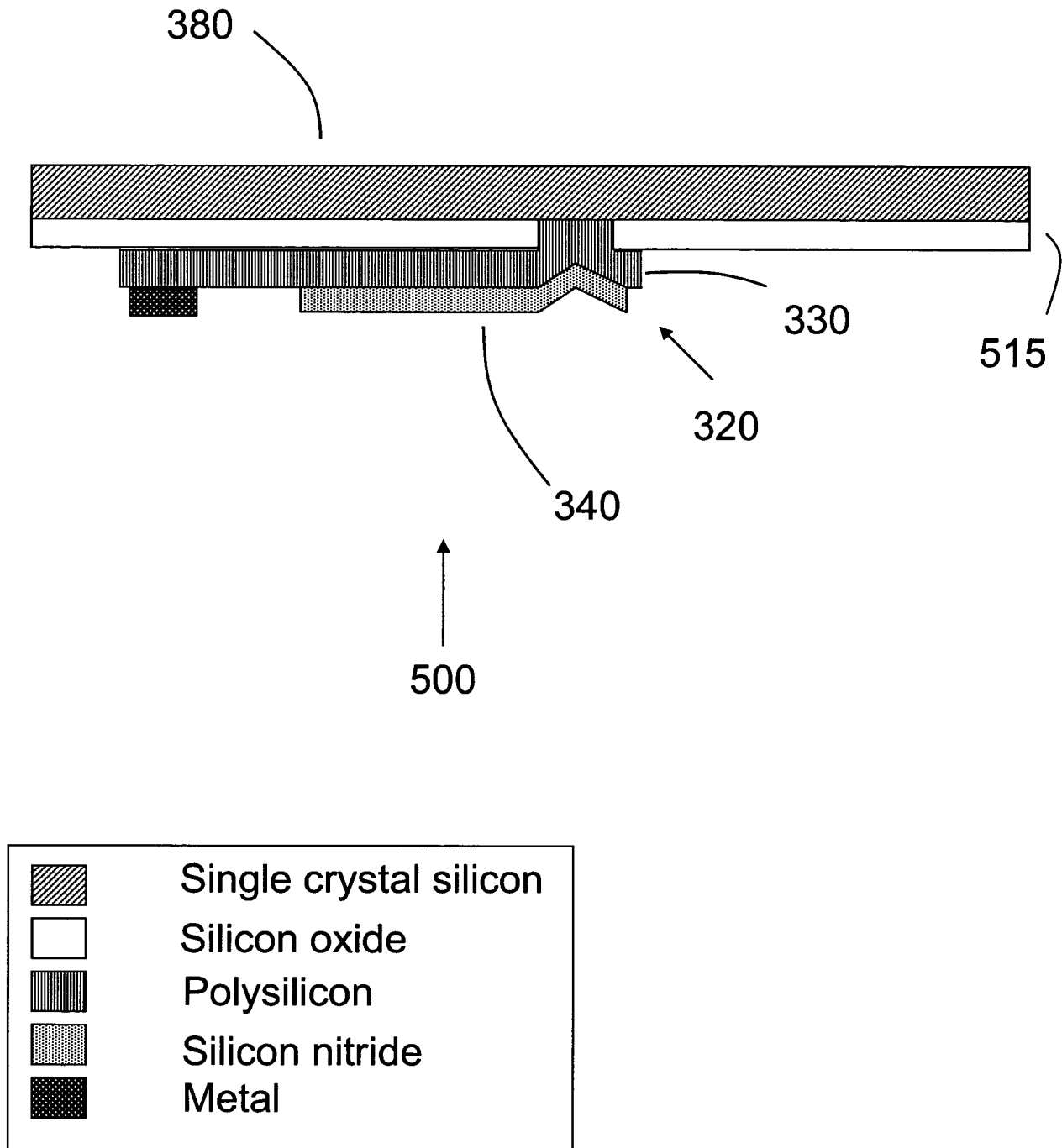
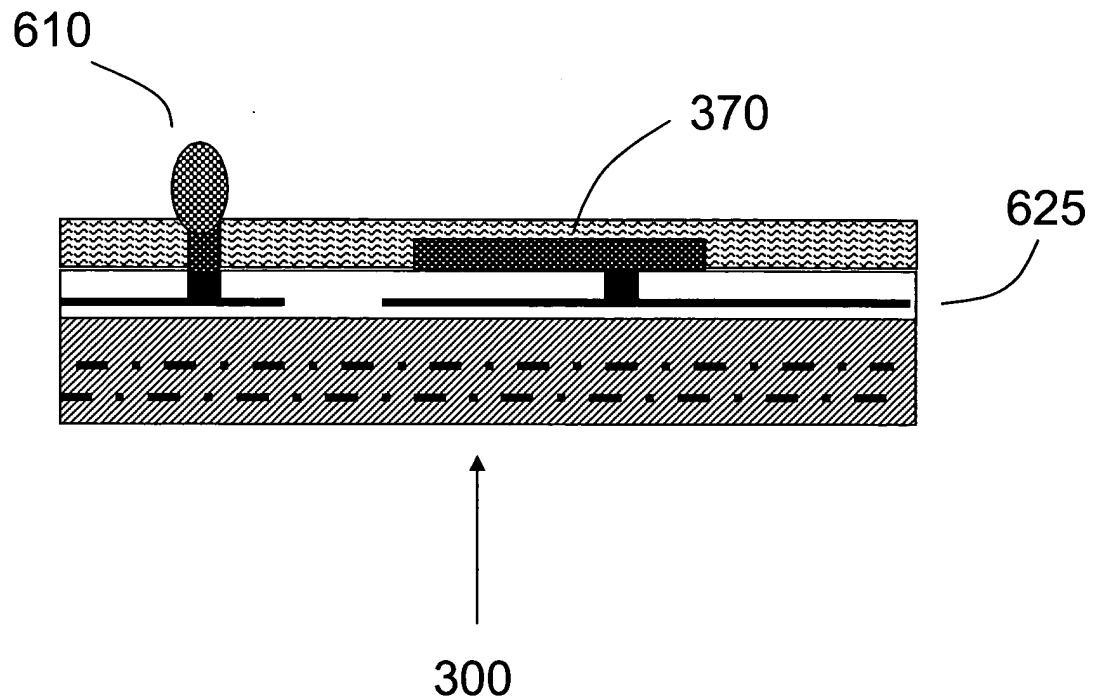


FIGURE 5











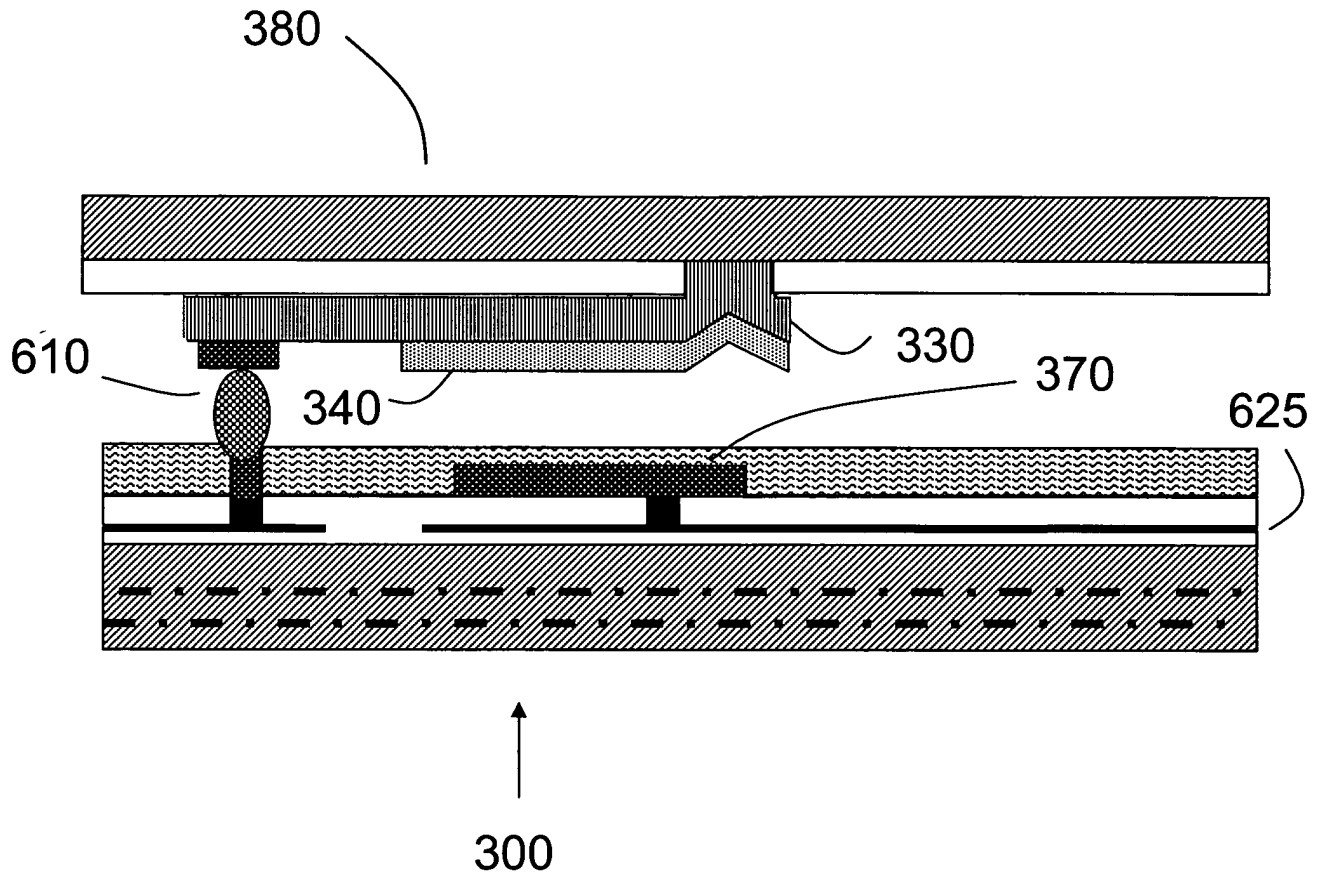
	Single crystal silicon
	Silicon oxide
	Polysilicon
	Silicon nitride
	Metal
	CMOS Passivation
	Bonding layer
	Wiring layer

FIGURE 6



	Single crystal silicon
	Silicon oxide
	Polysilicon
	Silicon nitride
	Metal
	CMOS Passivation
	Bonding layer
	Wiring layer

FIGURE 7A

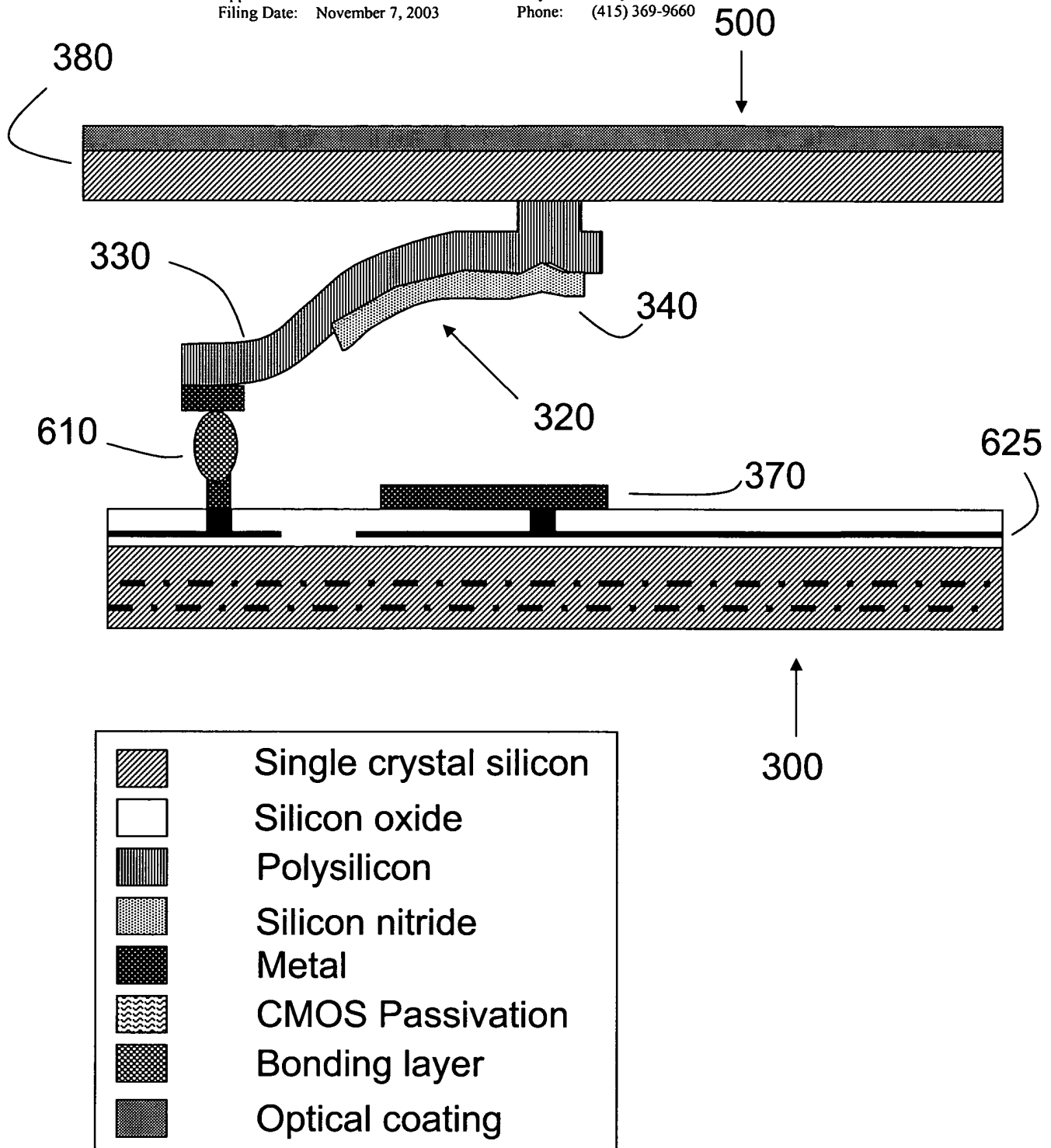


FIGURE 7B

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Material	CTE (ppm/°C)
Silicon	2.6
Si <sub>3</sub> N <sub>4</sub>	2.8
SiC	4.3
AlN	4
Ni	13.4
SiO <sub>2</sub>	0.55

FIGURE 8

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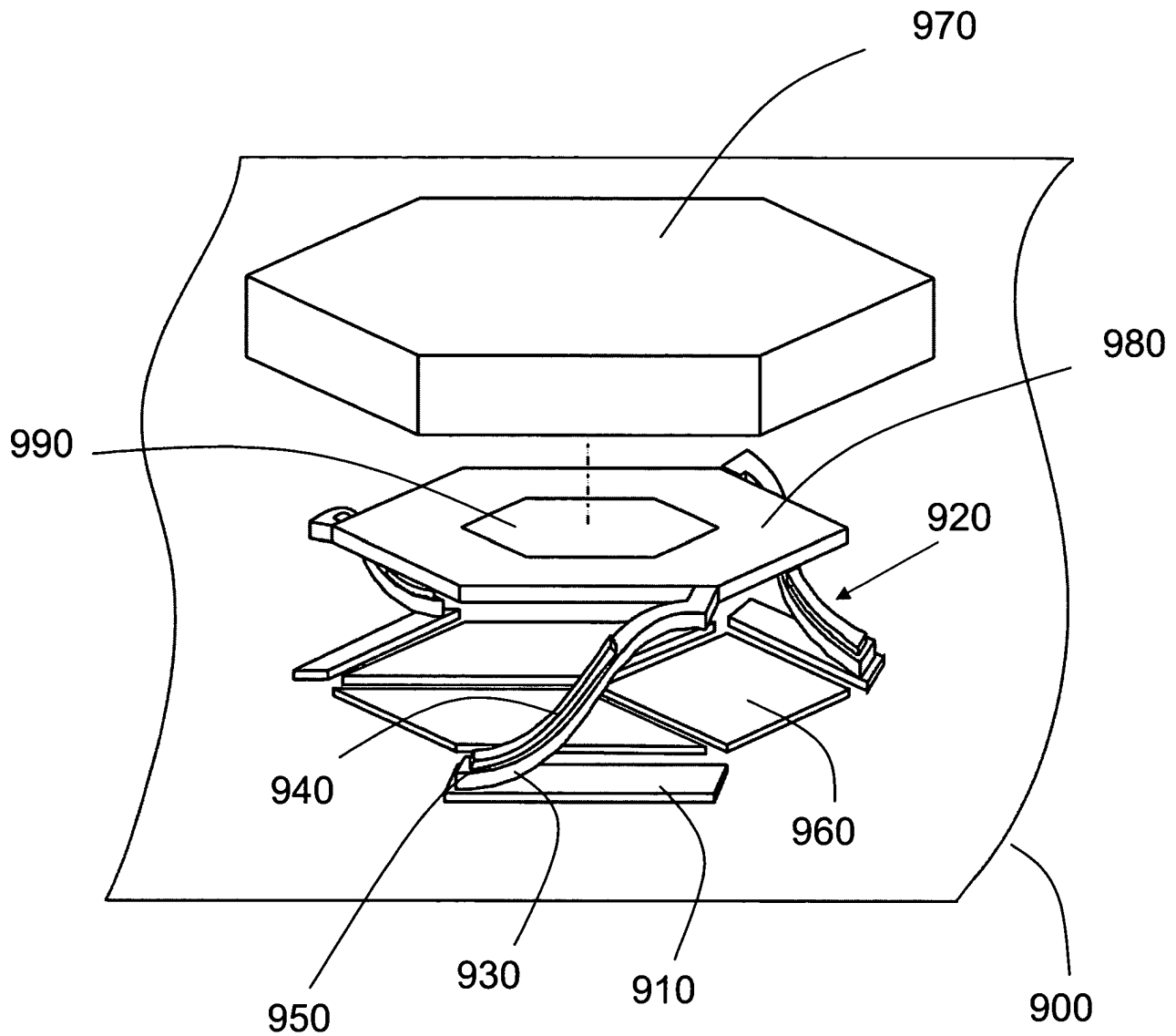


FIGURE 9